

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



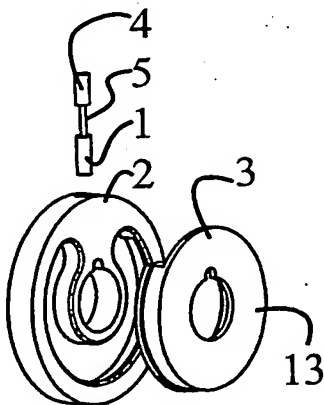
(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/048837 A1

- (51) International Patent Classification⁷: **A61B 5/0478**, 5/04
- (21) International Application Number: **PCT/FI2004/000687**
- (22) International Filing Date:
16 November 2004 (16.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
20031677 18 November 2003 (18.11.2003) FI
- (71) Applicant (for all designated States except US): **NEXSTIM OY** [FI/FI]; Elimäenkatu 22 B, FI-00510 Helsinki (FI).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **HANNULA, Henri** [FI/FI]; Särkiniementie 8 A 6, FI-00210 Helsinki (FI). **AHO, Matti** [FI/FI]; Tuomarilankatu 1 A 3, FI-02760 Espoo (FI). **OLLIKAINEN, Marko** [FI/FI]; Kaivosvoudintie 4 L 100, FI-01610 Vantaa (FI).
- (74) Agent: **SEPPO LAINE OY**; Itämerenkatu 3 B, FI-00180 Helsinki (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **ELECTRODE STRUCTURE FOR MEASURING ELECTRICAL RESPONSES FROM THE HUMAN BODY**



(57) Abstract: The invention relates to an electrode structure (10) for attachment to a more extensive measuring structure (11), in order to measure electrical responses from the human body. The electrode structure (10) includes a conductive electrode (1). According to the invention, the electrode (1) is shaped to be thin in the thickness direction of the electrode structure (10), and the electrode structure (10) is equipped with a hole (6) and the electrode (1) is located at the edge of the hole (6), in such a way that its longitudinal axis is essentially parallel to the plane of the measurement subject.

WO 2005/048837 A1